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C. G. LONG

2,650,125

WINDOW SASH HOLDER AND LOCK

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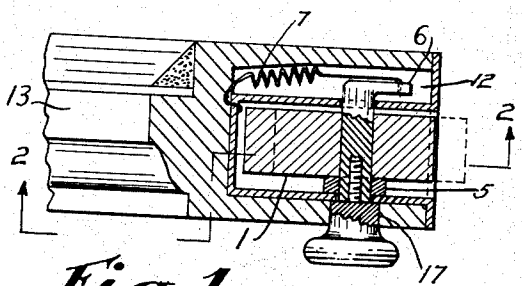


Fig. 1.

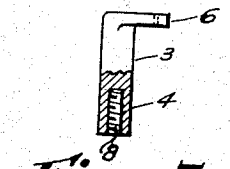


Fig. 7.



Fig. 9.

Fig. 8.

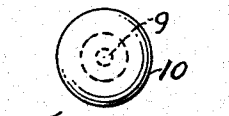


Fig. 10.

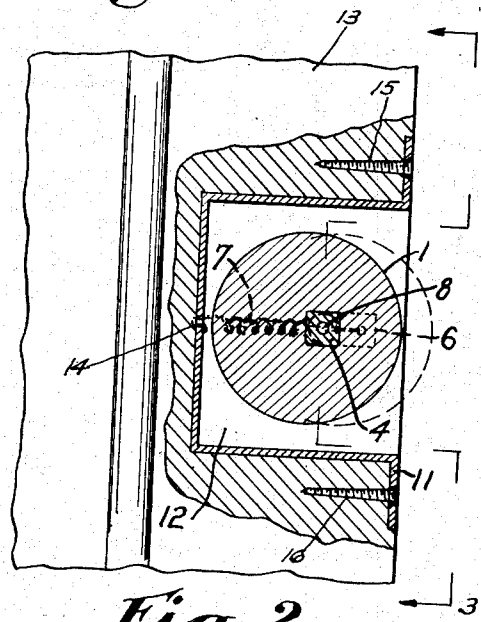


Fig. 2.

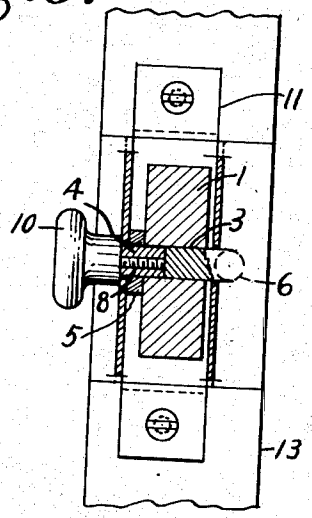


Fig. 3.

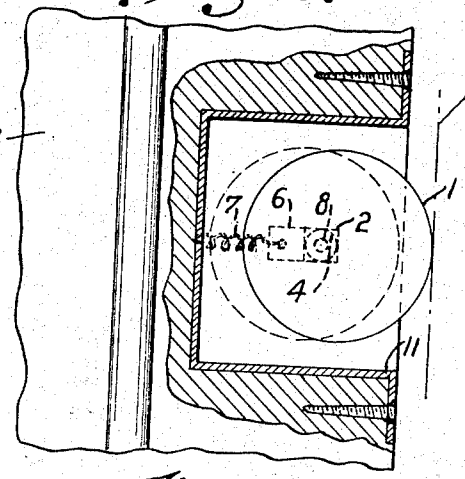


Fig. 4.

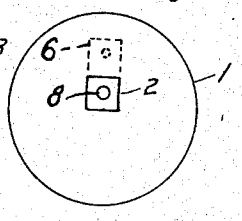


Fig. 5.

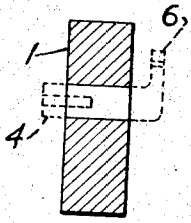


Fig. 6.

Inventor

By Crawford G. Long

Chas. Senegre

Attorney

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WINDOW SASH HOLDER AND LOCK

Crawford G. Long, near Birmingham, Ala.

Application August 29, 1949, Serial No. 112,879

2 Claims. (Cl. 292—228)

1

This invention relates to a window sash holder and lock or in other words a cam-type window fastener. It has for its main objects to provide such a device that will be highly efficient for its purpose, very simple in structure, cheap to manufacture, extremely durable, and easy to install and use.

Other objects and advantages will appear from the drawing and description.

Many windows in use in residences and other buildings are not provided with sash weights, especially in cheaply constructed buildings, and as a result are generally provided with means to hold the lower sash in one raised position. The present invention will hold the sash in any position along its limit of travel, and will also lock it in its bottom position to thus prevent it from being raised from the outside.

The present invention is an improvement upon a similar device as shown in my co-pending application under Serial Number 730,270 filed February 24, 1947, now abandoned.

By referring generally to the drawing part of this application, it will be observed that Fig. 1 is a fragmentary view of a window sash, part full and part in sectional view, showing the present device also part full and part sectional, installed within the edge portion of the sash; Fig. 2 is a vertical view on line 2—2 of Fig. 1, Fig. 3 is a vertical edge view on line 3—3 of Fig. 2; Fig. 4 is a view similar to Fig. 2 but showing the roller in its extreme outward position; Fig. 5 is a detail of the roller showing the shaft hole off center; Fig. 6 is an edge view of the roller with shaft indicated in broken lines; Fig. 7 is a detail view of the roller shaft; Fig. 8 is an end view of Fig. 7, Fig. 9 is a detail view of the control knob; and Fig. 10 is an end view of Fig. 9.

Similar reference numerals refer to similar parts throughout the several views.

Referring to the drawing in detail it will be seen that the device comprises a round roller 1 having a square hole 2 off-center therein. A shaft having a square portion 3 as shown in Fig. 7 fits into the square hole 2 of the roller, a round portion 4 as shown in Fig. 7 extends through a washer 5 as shown in Fig. 1, an extension 6 as shown in Figs. 7 and 8 has one end of a spring 7 attached thereto, and a threaded hole 8 receives the threaded end 9 of the knob 10 as shown in Figs. 9 and 10, thus supporting the roller in the case 11 that fits into the recess 12 in the edge of the sash 13. The coil spring 7 has its other end attached at 14 in the case with the spring set to pull the extension 6 of the shaft inward. The

2

assembled parts are held in the recess of the sash by two screws 15 and 16. The assembly less the knob 10 is first inserted and fastened within the recess, then the knob is attached through a suitable hole 17 in the face of the sash, and screwed in tightly in order to turn the roller by overcoming the tension of the coil spring.

From the foregoing it will appear that if the roller is retarded in its outward movement any less than plainly shown in Fig. 4 it will jam against the frame wall (not shown) of the sash if it is any nearer than indicated by the line 18. To lock the sash in its bottom position the roller would be set to protrude from the upper half of its case 11, and would jam against the frame wall when moved upward, but in any other position of the sash the roller would be set to protrude from the bottom half of its case 11.

The various parts may be made of any material suitable for the purpose. The invention resides in the arrangement and combination of the parts, not the material of which they are made. Also the parts may be made in different sizes and capacities.

While I have shown and described the preferred embodiment of my invention, I do not wish to limit same to the exact and precise details of structure, but reserve the right to make all modifications and changes so long as they remain within the scope of the invention and the following claims.

Having described my invention I claim:

1. A window sash holder and lock of the character described comprising, a disck-shaped metal roller, said roller having a square hole positioned off-center through it from one flat face to the other flat face, a partly round and partly square metal shaft, the square portion of the shaft being of a size to fit in the square hole of the roller, the roller mounted upon the square portion of the shaft, a round portion of the shaft extending beyond one face of the roller, the end of said extended portion having a round threaded hole therein, the other end portion of the shaft beyond the opposite face of the roller being round and terminating in an L-shaped end, the end of the L-shaped portion having a hole therethrough, said L-shaped end being parallel with a radius leading from the edge of the square hole in the roller nearest the circumference edge of the roller; a flat-shaped metal case with one edge being open, said shaft with roller thereon mounted revolvably in said case, a coil spring, one end of the said spring attached to the L-shaped end through the hole therein with the

other spring end attached to the center portion of the narrow wall of the case, said spring being disposed normally to pull the end of the L-shaped shaft toward the wall; said case being adapted to be inserted and retained in a slot in the edge of a window sash with the open edge adjacent the window frame, the roller being positioned with its larger area toward the open edge of the case with part of its circumference edge extended beyond the plane of the edge of the sash and being adapted to make contact with the face of a window frame positioned adjacent the roller; a metal knob having a threaded end portion, said threaded end being inserted tightly in the said threaded hole in the end of the shaft and being adapted by manual operation to turn said shaft with roller thereon by overcoming the tension of said spring.

2. In a window sash holder and lock of the character described according to claim 1, and being further characterized by said roller being adapted to be partially exposed out of the upper half of said open edge of said case to make contact with a window case wall to thus prevent the sash in which it is attached from being raised, and being adapted when partially exposed out of the lower half of said open edge of said case to make contact with a window case wall to thus hold the sash in any position along its limit of travel.

CRAWFORD G. LONG.

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